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TITLE OF THE INVENTION

METHOD OF DETECTING AN ARC IN A GLOW-DISCHARGE DEVICE
AND APPARATUS FOR CONTROLLING A HIGH-FREQUENCY ARC
DISCHARGE

5 CROSS-REFERENCE TO RELATED APPLICATIONS

This is a Continuation Application of PCT
Application No. PCT/JP02/10174, filed September 30,
2002, which was not published under PCT Article 21(2)
in English.

10 This application is based upon and claims the
benefit of priority from the prior Japanese Patent
Application No. 2001-323977, filed October 22, 2001,
the entire contents of which are incorporated herein by
reference.

15 BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a method of
detecting an arc and an apparatus for controlling
high-frequency arc discharge, which can control arc
20 discharge without stopping the glow discharge in a
high-frequency sputtering apparatus or a high-frequency
etching apparatus.

2. Description of the Related Art

In the sputtering apparatus, for example, glow
25 discharge is achieved in a predetermined space.
Electric power is supplied to the apparatus from
a high-frequency power source in order to perform